Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in this application:

Listing of Claims

1-6. (Canceled)

- 7. (Currently Amended) The method of claim 1, A method for converting an amino ether alcohol to an amino ether amine, the method comprising contacting a catalyst comprising at least one of zinc oxide or a zinc salt, and at least one of copper oxide or a copper salt, with a vapor phase mixture comprising the amino ether alcohol and an amine, wherein the amino ether alcohol has the formula NR¹R²R³, wherein R¹ and R² each individually is selected from the group consisting of H, C1-C10 alkyl, a C6-C10 aryl, and a C6-C10 aralkyl, R³ is a C4-C10 alkyl group having within it an ether linkage and also containing at least one hydroxyl group, and the amine has the formula, NHR⁴R⁵, wherein R⁴ and R⁵ each individually is H, a C1-C10 alkyl, a C6-C10 aryl, or a C6-C10 aralkyl group, provided that no more than one of R⁴ and R⁵ is H, wherein the contacting is performed at a temperature ranging from 120 °C to 300 °C and a pressure ranging from 0 to 500 psig (101 to 3549 kPa).
- 8. (Currently Amended) The method of claim <u>7</u>4, wherein the contacting is performed at a temperature ranging <u>from 180 °C</u> to 220 °C and a pressure ranging from 0 to 100 psig (101 to 791 kPa).
- 9. (Original) The method of claim 8, wherein the contacting is performed at a pressure of 40 to 80 psig (377 to 653 kPa).
- 10. (Currently Amended) The method of claim <u>7</u>4, wherein the contacting is performed in a fixed bed tubular reactor.
- 11. (Currently Amended) The method of claim <u>7</u>4, wherein a weight ratio of copper to zinc in the catalyst ranges from 0.3 to 6.

- 12. (Currently Amended) The method of claim 74, wherein a weight ratio of copper to zinc in the catalyst ranges from 0.4 to 3.
- 13. (Currently Amended) The method of claim <u>7</u>4, wherein the catalyst further comprises a promoter comprising at least one of an alkali metal, an alkaline earth metal, lanthanum, cerium, praseodymium, neodymium, samarium, europium, gadolinium, <u>orand</u> terbium, the promoter present at 0.05 to 5 wt%, based on a total weight of the catalyst.
- 14. (Original) The method of claim 13, wherein the promoter is present at 0.2 to 2 wt%, based on the total weight of the catalyst.
- 15. (Original) The method of claim 13, wherein the promoter is present at 0.3 to 1.5 wt%, based on the total weight of the catalyst
- 16. (Currently Amended) The method of claim 13, wherein the promoter comprises at least one of potassium, rubidium, <u>or and</u>cesium.
- 17. (Currently Amended) The method of claim 13, wherein the promoter comprises at least one of magnesium, calcium, or and strontium.
- 18. (Currently Amended) The method of claim 13, wherein the promoter comprises at least one of lanthanum, cerium, or and prase odymium.
- 19. (Currently Amended) The method of claim 13, wherein the catalyst further comprises at least one of Al₂O₃ or and SiO₂.
- 20. (Currently Amended) The method of claim <u>134</u> wherein the method further comprises, prior to said contacting, treating the catalyst with hydrogen under conditions sufficient to form an activated catalyst.
- 21. (Original) The method of claim 20 wherein the hydrogen is generated by interaction of the catalyst with an organic compound.

Appl. No. 10/634,516

- 22. (Currently Amended) The method of claim <u>13</u>4 wherein the vapor phase mixture further comprises hydrogen.
- 23. (Currently Amended) A method for converting dimethylaminoethoxyethanol to an amino ether amine, the method comprising:

contacting a catalyst with hydrogen gas to produce an activated catalyst; and contacting the activated catalyst with a vapor phase mixture comprising dimethylaminoethoxyethanol and at least one of methylamine <u>orand</u> dimethylamine; wherein the catalyst comprises the following materials in the following amounts, based on total catalyst weight:

20 to 70 wt% copper oxide,

20 to 65 wt% zinc oxide, and

0.3 to 1.5 wt% of at least one of potassium and or cesium.